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## SEQUENCE LISTING

&lt;110&gt; Beth Israel Deaconess Medical Center, Inc.

Inouye, Roger T.

Torres-Viera, Carlos

Moellering, Robert

Gold, Howard

Eliopoulos, George M.

&lt;120&gt; METHODS AND COMPOSITIONS FOR RESTORING ANTIBIOTIC SUSCEPTIBILITY IN GLYCOPEPTIDE-RESISTANT ENTEROCOCCUS

&lt;130&gt; B0662/7036WO/ERP/KA

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&lt;160&gt; 39

&lt;170&gt; FastSEQ for Windows Version 3.0

&lt;210&gt; 1

&lt;211&gt; 10851

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 1

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| aaaggcaatt  | gtaattttatg | atgaaagttt   | actaatatgg  | cttggcttt    | attcatggca  | 1080 |
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| gcttcggcca  | tcttgctcaa  | gccaatattt   | attcccatcc  | ctaaaagggc   | agccatgata  | 1200 |
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| tcctgagcct  | cttctactga  | agagacaaag  | gtattccatt   | caataaccga  | ttctaaaacc  | 1980 |
| ttaaaaaacgt | ctaattttc   | ctctcttgct  | ttaattaatg   | cttgcggat   | gttcgtaaag  | 2040 |
| tgtataactt  | tctcatttag  | cttttacccg  | ttttgtttct   | ggatttcctc  | ttgagcccta  | 2100 |
| cgacctttg   | ataacaaaact | aagtatttgc  | ctatcatgaa   | tttcaaaccgc | tttatccgtt  | 2160 |
| agctcctgag  | taagttgtaa  | taaatacgatg | gtaatatcg    | aataacgttt  | attttcttga  | 2220 |
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| atgctttga   | tatgagtgt   | tggcaacccg  | ggataccgaa   | gaacagctaa  | ttgaacagca  | 2880 |
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| ataaaatcaga | gattccgccc  | tctatttttc  | ttgcgctgaa  | gagagccgtt  | gtgaaatata   | 6240 |
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| ttgaaaaggag | acaggagcat  | gaatagaata  | aaagttgcaa  | tacttttgg   | gggttgctca   | 7020 |
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| aaatacggac  | cgttatacat  | ttgaattacg  | aatctgggt   | tatggaaaaat | gtgcgaaaaaa  | 7140 |
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| aaagatgata  | ggccgggtggc | agctacgttt  | acttatectt  | ttttttttaa  | ggccggcggt   | 7500 |
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| cgcttgcgt   | tattagcg    | aaaggggtga  | taagcatgga  | aatagattt   | acttttttag   | 8040 |
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| gaaaaccgtt  | tgacggttat  | gaagtaatc   | gcattgtagg  | gacatacgag  | ttggctgaat   | 8160 |
| cgctttgaa   | ggcaaaaagaa | ctggctgcta  | cccaagggtt  | cggttgcgtt  | ctatggacg    | 8220 |
| gttaccgtcc  | taagcgtgt   | gtaaaactgtt | ttatgcata   | ggctgcacag  | ccggaaaaata  | 8280 |
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| cttatgaaaa ttcatctaca ttgggtataa tagtaaatcc agtagggcga aataattgac    | 8940  |
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| ttctagaaat attcataact tccaactata tagttaagga ggagactgaa aatgaagaag    | 9060  |
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| gcactgtttt ctcaaggaaaa agtcgaattt caaaattatg atcaaaatcc caaagaacat   | 9180  |
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| gttactaaaa ataccaccat tcatgtgcgc actaatcttc gttatgagat atcagggaaac   | 9900  |
| aatataagacg gtgttaattgt gacagtgttt cccggatcaa cacatactaa ttcaaggagg  | 9960  |
| taaggatggc ggaatgaaac caacgaaatt aatgaacacgc attattgtac tagcacttt    | 10020 |
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| atacaactta aacaaaagaa ttagagaaaa ttatattggg aaaaatatta tctagaggat    | 10140 |
| tgctagcttt atatttagt gacataatct gtttagtgtt attcaaatta caataacaata    | 10200 |
| ttttatcagt atttaattat catcaaagaa gctttaactt gactccattt actgcactg     | 10260 |
| ggaatttcag agagatgata gataatgta taatctttat tccatttgc ttgcgtttga      | 10320 |
| atgtcaattt taaagaaatc ggattttac ctaagttgc ttttgcgtt gtttaagtc        | 10380 |
| ttacttttga aataattcaa ttatcttcg ctatggagc gacagacata acagatgtaa      | 10440 |
| ttacaaatac tggggaggc ttcttgac tggaaattata tggtttaagc aataagcata      | 10500 |
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| ctgatcttc atacacataa agatattgaa tgaattggat tagatggaaa acgggatgtg     | 10680 |
| ggggaaactcg cccgttaggtg tgaagtggg gggaaacccgg tgataaagta aaaagcttac  | 10740 |
| ctaacactat agtaacaaaag aaagcccaat tatcaatttt agtgctgagg aattggcttc   | 10800 |
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<400> 2

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| tgaaactaca gggaaactac agactgttat gttatcttct taaatggagg gatttttatg     | 180 |
| tcgatacggaa ttctacttgtt cgaggatgtat gatcatatct gcaatacagt aaggcggtt   | 240 |
| ttggctgaag caagatgtt ggtggatgcc tgcacagatg gaaacgaagc acacaccaag      | 300 |
| ttctatgaaaa acacctatca actgggtattt cttgtatatta tgctgcccgg tatgaatggg  | 360 |
| catgaacttc tacgtgaatt tcgggcgc当地 aatgataccccc ccattctgtat gatgacagcc  | 420 |
| ctgtcggtatg acgaaaaacca aatccggcg tttgtatgcag aggccagacga ctatgtaaaca | 480 |
| aagccattca agatgcggat ttactaaag cgggtggaaag ccctgttacg ggcgcgg        | 540 |
| gcccgtggca aggaatttcg tggggcagg ctgacacttc tgccggagga ttttagggta      | 600 |
| ctttgtgacg gtacggagct gcccctgaca cgaaaaagaat ttgaaatctt ttgtgtctg     | 660 |

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|                        |                        |                        |      |
|------------------------|------------------------|------------------------|------|
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| gactttgacg gtgatggcag  | cacagtcac actcatatca   | aaaatctgcg ggcgaagctg  | 780  |
| ccggaaaata tcatcaaaaac | catcccggtt gtaggttacc  | gattggagga atcattataa  | 840  |
| tggaaagaaa agggattttc  | attaaggtt ttcctatac    | gatcattgtc ctgttactgc  | 900  |
| ttgtcggtgt aacggcaaca  | ctgtttgcac agcaatttgc  | gtcttatttc agagcgatgg  | 960  |
| aagcacagca aacagtaaaa  | tcctatcagc cattgggtgg  | actgattcag aatagcgata  | 1020 |
| ggcttgatgat gcaagaggtg | gcagggctgt ttcaactacaa | taaccatcc tttgagttt    | 1080 |
| atattgaaga taaaagaggga | agcgtactct atgcccacacc | gaatgccat acatcaaata   | 1140 |
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| aaagcaaggc aggtgtggg   | ttgcttatac aagggtgcac  | aattcgggaa attgttatga  | 1260 |
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| cgccgatcaa agccttagcg  | gacagtgcga ataaaatggc  | aaacctgaaa gaagtaccgc  | 1380 |
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| tcaggctgaa agaaaccatc  | gcaaggctgg agatgaaat   | cgcaagggaa catgagttgg  | 1500 |
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| ggcgcacggt tgccgagctg  | ctaccggatt ttc当地ac     | ggcagaggca aacaaccac   | 1800 |
| ggttcggtcac agatattcca | gccggacaaa ttgc当地tgc   | cgatccgaag ctgatccaaa  | 1860 |
| aggcgctatc caatgtcata  | ttgaatgcgg ttca        | gccccagggaa ggtgaggtac | 1920 |
| ggatatggag tgagcctggg  | gctgaaaat accgttttc    | cgtttgaac atgggcgttc   | 1980 |
| acattgtatc tactgcactt  | tcaaagctgt tcatccatt   | ctatcgcat gatcaggcgc   | 2040 |
| gaagcagaaa aagtggcga   | agcggttgg ggcttgcatt   | cgtacaaaaa acgctggat   | 2100 |
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| accctgc当地 tcttttgc当地   | tttc当地c acaggaaaac     | tacagattga ctacagggaa  | 2280 |
| agtacagata cgcttgc当地   | aataacaatc gtaccagcca  | caaatcgtag ttttattgca  | 2340 |
| aaggaggcat tcaatcaaata | ggaaaaaaacg aactatcatt | caaatgtgaa tcatcacaaa  | 2400 |
| cgccatatga aacaatctgg  | ggaaaaaaacgg gctttctat | gggc当地cat tatctcg      | 2460 |
| acagtctgcg cgtgtttttt  | gggggtggaga ttgggttccg | tattggagc aacacagcta   | 2520 |
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| aacactcttgc accccgc当地  | agaacaggaa gatgaacagg  | aatggagcct gattttagt   | 2640 |
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| caccaaggc ttgc当地tga    | ggaatattta aacacagaaa  | aatggaaaaa ggatataatg  | 3180 |
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| taggagaaaa aacgttccc   | tatttgc当地 ttgaaaacgg   | ctgttgc当地 gcacagacga   | 3360 |
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| agaccttaaa cggcctattg  | ataaaaacgg gggaaac     | caactaaag ctggcggcaa   | 3480 |
| gccatgc当地 caaagatacc   | tttcttctt gggcttccat   | ggtggccat ggtaagctca   | 3540 |
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|   |      |
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| ggccgctggc aatcaatgca ttagcgtagg ccataagtcc gaggtttccg aggcgacaat           | 4200 |
| tcttgcgtcg agaaaggctcg gggtaaaata catttctacc cgccagcatcg gctgcaatca         | 4260 |
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| ggacagcggtt gcggattatg ctttgatgct gatgctgatg gccatacggg gtgcaaagtc          | 4380 |
| caccatacac gccgtggcgc aacaaaattt cagactggat tgtgtccggg ggaaagagct           | 4440 |
| gcgggatatg actgtgggag ttattgaaac cgccatata gggcaagcgg tcgtcaaaag            | 4500 |
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| ttatgtccag ctgtatgagc ttctaaaaaa cagcgatatt gttacgctcc atgtgccgt            | 4620 |
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| caaaaaacgg cgtatggaaat ctatgcaga agccatgtac ggaatggaa gccgatagtc            | 5160 |
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| aggaaaaacga gcccggaaaaa ggctcagaga atgcgtatgat tattcgttcca gcagacattc       | 5760 |
| cggtcgagga acggaaatcggtt gtcgcaagaaaaa cgccaaagaaa agtataatcggtt gtcgttggat | 5820 |
| gcagagggtc tgctcggtt gatcttttt tgccaggagga tggcgccatc gttctaaacg            | 5880 |
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| ccgtatggaa aatggttttt tgttttttaga taaaatgttg catgggttcc gttggatgc           | 6060 |
| caagtagcgt acatggata acttcacggg aaaaccatgt gatgggtatg aggtgaatcg            | 6120 |
| catcatcgcc acaaaaggccg tggcgcttgc tctgcgcgaa gcacaaatcc atgcggcaccg         | 6180 |
| ccttggctac ggcttgcctt tatggatgg atatcgccca aatctgcgg tggactgttt             | 6240 |
| cctgcgttgg gccccggcgc cggaggacaa cctcacaaaaa gaaaaatatt accccaatat          | 6300 |
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| agagaaccag cagaaaacaag tcgttctgc tctgctgatt cactcgaaac tgtttgcattc          | 7020 |
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<212> DNA  
 <213> Enterococcus casseliflavus

<400> 3

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| aatcatctcc  | ctatgactac  | gacctctt     | tgatcggat    | cgccccagat  | gctatggatt  | 180  |
| ggtaacttgc  | tacaggagaa  | ctggaaaaca   | tccgacaaga   | cacgtggttg  | ttggatacga  | 240  |
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| gttctgcctt  | atgtatgaac  | aatggctgc    | tgcataaagc   | tgcagcagcc  | attggcgtac  | 480  |
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| attgttccgc  | agtgcctcta  | caaaaaaata   | ttgcccgtgt   | tgagatcggt  | tgcggtattt  | 720  |
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| ttaaaggct   | tgctcgcatc  | gactttttg    | tcacggagcg   | aggagaacta  | tacttgaatg  | 960  |
| aaatcaatac  | tatccgggc   | tttacgagtc   | actccgcta    | tcctgccatg  | atggcagcgg  | 1020 |
| tcggcttatac | ctatcaagaa  | ctactacaaa   | aactgcttgc   | cttagcaaag  | gaggaagtca  | 1080 |
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 <211> 5781  
 <212> DNA  
 <213> Enterococcus faecium

<400> 4

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| tgtaaggagt  | aatgcataat  | atgaaaaaaat | cttagtggtt  | gatgatgaaa  | agaattggc   | 120  |
| cgacttagtt  | gaagtatatac | tgaaaaacga  | tggatatacc  | gtttataaatt | tttataatgg  | 180  |
| caaggatgca  | ctaaagtgt   | ttgaatcgt   | ggaactggat  | ttagccat    | tggatatcat  | 240  |
| gtttccggat  | gtagacgggt  | ttcagatctg  | ccagaaaatc  | cggggaaaat  | tttacttccc  | 300  |
| tgtttatcatg | ctgacagcaa  | aagtggagga  | cggggataaa  | atcatgggc   | tgtccgtggc  | 360  |
| ggatgattat  | attacaaagc  | cgtttaaccc  | gctggaaatg  | gttgcgagag  | taaaggcgc   | 420  |
| gctgcggcag  | tacatgcgggt | acaaggaccc  | cagcttaaag  | caggagcg    | aatgcacaga  | 480  |
| atacgatatac | agagggatga  | caatcagca   | gagcagccat  | aagtgtatcc  | tgtttggaaa  | 540  |
| ggagattcag  | ctgacgccaa  | cggagtttc   | gattcttgg   | tatctgtgc   | agcgtcaggg  | 600  |
| tacggttgtt  | tctacggagg  | aattatttga  | gcaagatatgg | ggtgaacgg   | tttttgcac   | 660  |
| caataatact  | gtgatggcgc  | atatcgccg   | gctccgggag  | aaaatgaagg  | aaccgtcaag  | 720  |
| aaatccgaaa  | tttataaaaa  | ctgtgtgggg  | agtggatat   | accattgaaa  | aatagaaata  | 780  |
| aaaccagtca  | tgaagatgac  | tatttactt   | ttaaaaacag  | attgtccgtt  | aaaatactgc  | 840  |
| ttatgatgtt  | atattccatt  | ctgattattg  | cggtgttta   | tctgtttatc  | ttaaaaagata | 900  |
| attttgcaaa  | tgtcggtt    | gccattttag  | acagctt     | ctatcatgat  | cgggatgagg  | 960  |
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| ggaaaacgga  | cgctgagctt  | gcagagcaaa  | ggaaaaacga  | tcttgcata   | tatctggccc  | 1260 |
| atgacctgaa  | gaccggcctt  | ccatcggtca  | taggatattt  | gaacctgtt   | agggatgaga  | 1320 |
| atcagattt   | cgaggaactt  | agggaaaaat  | atttgcctat  | atcattggat  | aaggctgagc  | 1380 |
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| cgcttgcgt   | cagcaaaatc  | aatctgacca  | tatctgcgtt  | acagctgggg  | tatgagttt   | 1500 |
| agccgatgt   | ggccggggaaa | aatctgaaat  | gtgaatttga  | tgttcagcca  | gacatgatgc  | 1560 |
| tgtctgcgt   | tgccaaacaag | ctgcagcggg  | tcttcgataa  | tgtgctgaga  | aatgccgtca  | 1620 |

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| gctactgcta  | tgagaataacc | accattcgaa | tgaaagccag  | gcagaccgaa  | gaccatgtac  | 1680 |
| tcatcaaaat  | cataaacgaa  | ggggatacga | ttcctggga   | gagattggaa  | agaatcttg   | 1740 |
| agcagttta   | ccgcctggat  | gtatctcgaa | gtcaagtac   | cggcggggcc  | ggtctggggc  | 1800 |
| ttgccatgc   | aaaagagatt  | gtggaactgc | accatggaca  | gatcactgcc  | cacagcgaaa  | 1860 |
| atggtatcac  | cagtttgag   | gttacattgc | ccgtcgtagg  | aaaatcgtaa  | gaaattccga  | 1920 |
| gataaaccgt  | gtgttatcca  | taaaagaacg | cgaaaacata  | aatcgctcta  | ttctggat    | 1980 |
| ctttatatac  | ggaggggcga  | ttttttgt   | ttcagaaagg  | agttcagggt  | aatgatggaa  | 2040 |
| tatcaaaaca  | ataatggaaa  | ctatgacaaa | aggaatcgta  | gaaaagccaa  | aaaaagaaaa  | 2100 |
| ttgcttttt   | acagggctgc  | atgtgtcaca | cttgggttgc  | tcattgtttc  | tgtaatctt   | 2160 |
| ggagttgtgc  | attttttagg  | ggagagataa | gatcccgcc   | tttatccaa   | agaaaaacaca | 2220 |
| aaaacagaca  | agaactattc  | gtggcttacc | gacgatcaga  | atgaggcagt  | accctcagtt  | 2280 |
| ccagagccag  | ccatatccga  | ccaggctaac | aaaatccgg   | taaatatcac  | agcggcaaaac | 2340 |
| gccattgtaa  | tgaataaaaga | cacaaatgag | gtattgtacc  | agaaaaaaag  | cacagccaaa  | 2400 |
| attgcgcgg   | ccagcactgc  | taagatgatt | atggcttga   | cagcacttga  | ctattgttcc  | 2460 |
| ccggaggatg  | aaatgaaagt  | aggtgcggag | attggaatga  | ttcaaaagcga | tgcgtcaacc  | 2520 |
| gcatggctta  | tgaagggtga  | tacactgact | gtcagacgc   | tcctgattgc  | ccttgcgtt   | 2580 |
| ccgtccggca  | atgatgcagc  | ctataccctt | gcagtcaata  | ccggaaaggc  | tattgcaggt  | 2640 |
| gataacagcc  | tgaccagtca  | gcaagcgatt | gaagtattca  | tggataaggt  | aatgaaaaaa  | 2700 |
| gccgtggccc  | ttggcgccac  | aaactcgaaa | ttttagtctc  | cgatggata   | tgatgccgaa  | 2760 |
| gggcagtata  | ctacagctta  | tgacctgt   | atcattgcaa  | aagcatgttt  | ggacaatcct  | 2820 |
| atcatttcgg  | agattgttagc | gagttattca | tcctatgaaa  | aatggtaaaa  | cggaagagag  | 2880 |
| gtcacttaca  | acaattccaa  | tgagctctc  | gatccgaaca  | gtcccttata  | ccgtccggag  | 2940 |
| gttatcggtt  | tgaaaacagg  | aaccagcagt | cttggcggcg  | catgtattgt  | ttctgcagcg  | 3000 |
| gtgatggacg  | gagaaaccta  | tatctgtta  | gtatgggtt   | ctacaaagga  | aagcagggtt  | 3060 |
| caggacagcg  | ttgatatttt  | agataaaatc | aaagcccagt  | aacgagataa  | ggaggaaatg  | 3120 |
| aatggagaaa  | ataatagaca  | taactgttt  | tgctgcgag   | ccagacgaaa  | tggaggttt   | 3180 |
| tcaaaagatt  | tcttatgagc  | ttgggttac  | agccacactc  | ataaaagatt  | ctatatcaga  | 3240 |
| aagcaatgct  | ggattagcta  | atggatccg  | gtgtgttaagc | gtaagccata  | aagcggagct  | 3300 |
| atcagaaccg  | attttcttg   | cgctaaaaaa | tgcaagggta  | aaatatatca  | gtacccggag  | 3360 |
| cattggttt   | aaccatattg  | atatacaggc | ggctgggtta  | ctgggtatgg  | ttgttggcac  | 3420 |
| agtagaatac  | tcgcccggaa  | gtgtggcga  | ttataccgtc  | atgctgtatc  | ttatgtctat  | 3480 |
| gcgtggcaca  | aagtgcattc  | tgcgtgaaac | ccagaggcag  | aattattgcc  | tgaatgac    | 3540 |
| gcgcggaaaaa | gaactgcggg  | atatgaccgt | gggtgtgtta  | ggaactgggc  | gaatcggaca  | 3600 |
| ggcagtcatg  | gagcgcctgg  | agggattcgg | tttaaaggtta | ttggcgtatg  | accgaaatca  | 3660 |
| aaaagcagga  | gcagactatg  | tttcgttca  | tgaactgtct  | aaaaaaagtg  | acattgttac  | 3720 |
| actgcatac   | ccgttggcg   | aggatacccg | ccatatgatt  | ggctatgaag  | agctggaaat  | 3780 |
| gatgaaggaa  | gaggcgttc   | tgatcaatac | aggcggggc   | gttttagtgg  | ataccgcagc  | 3840 |
| attggtagaa  | gcattaaaag  | gacagaaaat | cgccggcgcc  | ctggatgttt  | tggaggcga   | 3900 |
| agaaggatata | tttaccatg   | actgcaccca | aagaagaata  | gaacatcctt  | tcctgtcggt  | 3960 |
| cctgcaggga  | atgccaatg   | tcattgttac | gccgcacaca  | gcctatcata  | cggaacgggt  | 4020 |
| gttgggttgc  | acggtcagaa  | atactattag | aaattgtttt  | aattttgaaa  | ggagtctgg   | 4080 |
| aaatgtttag  | aattaaagtt  | gcagttctgt | ttgggggtctg | ttcagaggaa  | cataatgttt  | 4140 |
| cgataaaatc  | tgcgatggag  | attgcccac  | acatagatac  | aaaaaaatat  | cagccttatt  | 4200 |
| atattggaaat | cacaaaatcc  | ggcgttggaa | aaatgtgtga  | aaaaccttgc  | ttggagtg    | 4260 |
| aacaatatgc  | ggggatccg   | gttgggtttt | cgccggacag  | aagtacgc    | ggtctgtca   | 4320 |
| tacaaaaaga  | caaagggtat  | gaaatccac  | ctgtggatgt  | ggtgtttccg  | atgattcatg  | 4380 |
| gcaagtttgg  | ggaggatggc  | tccatacaag | gttgcgttgc  | attgtcaggc  | attccgtatg  | 4440 |
| tgggatgcga  | tattcaaagc  | tccgtatct  | gcatggataa  | ggcgcttgc   | tataccgttgc | 4500 |
| tgaaaaatgc  | gggtatca    | gtgcctgggt | tccggatcct  | tcaggagggg  | gatcgccctgg | 4560 |
| aaacggagga  | tttcgtatata | cccggttttg | taaagcctgc  | ccgttccggc  | tcatccttgc  | 4620 |
| gcgtaaacaa  | ggtatgcag   | gcagaagaac | tgcaggcagc  | aatcgaagaa  | gcaagaaaaat | 4680 |
| atgacagcaa  | gattttgatt  | gaagaggccg | ttaccggag   | tgaggttaggc | tgcgcatac   | 4740 |
| tgggaaacgg  | aatatgcatac | atggctggcg | aggtggatca  | gattgagctg  | agacacggct  | 4800 |
| tttttaagat  | tcatcaggaa  | gcacagccgg | agaagggatc  | tgaaaatgc   | gtcattccgag | 4860 |
| ttccagccgc  | cttaccggat  | gaggtaagag | aacagattca  | gaaaacggca  | atgaagatt   | 4920 |
| accggatact  | tggctgcaga  | ggattggccc | gcattgac    | gttttgcgg   | gaggacgggtt | 4980 |
| gcattgtgt   | aatatgc     | aataccatgc | caggtttac   | ttcttacagc  | cgctatcccc  | 5040 |

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|  |      |
|--|------|
| gcatgatgac agcagccggt tttacgcttt ctgaaaatact ggatcgcttg attgaacttt | 5100 |
| cacttaggag gtaactgtca tgaaaaagaa cttgccttt ttagatgaaa tgattcccg    | 5160 |
| gatccgatgg gatgc当地 atgccacctg ggacaatttc accggaaac cggtagacgg      | 5220 |
| atacatgta aaccgtgtta tggaaacgaa ggagctggg gttgc当地 gtaaggctca       | 5280 |
| gaagatggcg gagaagctag gatatggtt gctcttatgg gacggctatc gccccccagtg  | 5340 |
| cgcagtgaat tggggcttc ccaaccggaa gacaatctga cgaaaaagcg              | 5400 |
| ttactatcca aatatcaaaa ggaatgagat ggtgc当地 gggatgtgg cctcacaatc      | 5460 |
| cagccacagc cgtggaaagta cgggtgaccc tacaatttt cattgaata gcggatgct    | 5520 |
| tgttcctatg ggtggagatt ttgacttt gatgaacgg tcacaccatg ccccaagcg      | 5580 |
| tctgagcgaa gaagaatcaa aaaaccggca gtgcttgcgt tatatcatgg agagtagcg   | 5640 |
| atttgaagcc ttcgttatg aatggggca ttacgtcttg gcggacgagc catacccgaa    | 5700 |
| tacatattt gattttgca ttgcctagtg agagcctgaa gaaataaaaa atgtaaagatt   | 5760 |
| ataaggacaa gcggcatgag g  | 5781 |

|                                  |    |
|----------------------------------|----|
| <210> 5                          |    |
| <211> 27                         |    |
| <212> DNA                        |    |
| <213> Enterococcus faecium       |    |
| <br>                             |    |
| <400> 5                          |    |
| ggtggcgcgg gacttggatg gcgattg    | 27 |
| <br>                             |    |
| <210> 6                          |    |
| <211> 30                         |    |
| <212> DNA                        |    |
| <213> Enterococcus faecium       |    |
| <br>                             |    |
| <400> 6                          |    |
| ggcgcggatg attatataac gaagcccttt | 30 |
| <br>                             |    |
| <210> 7                          |    |
| <211> 18                         |    |
| <212> DNA                        |    |
| <213> Enterococcus faecium       |    |
| <br>                             |    |
| <400> 7                          |    |
| cgagccggaa aaaggctc              | 18 |
| <br>                             |    |
| <210> 8                          |    |
| <211> 20                         |    |
| <212> DNA                        |    |
| <213> Enterococcus faecium       |    |
| <br>                             |    |
| <400> 8                          |    |
| ggctgcata ttcaaagctc             | 20 |
| <br>                             |    |
| <210> 9                          |    |
| <211> 27                         |    |
| <212> DNA                        |    |
| <213> Enterococcus faecium       |    |
| <br>                             |    |
| <400> 9                          |    |
| attactgttt atggatgtga gcaggat    | 27 |
| <br>                             |    |
| <210> 10                         |    |

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<211> 26  
<212> DNA  
<213> Enterococcus faecium

<400> 10  
gtggcttcaa aatcaagcca tagccg 26

<210> 11  
<211> 18  
<212> DNA  
<213> Enterococcus casseliflavus

<400> 11  
cgagccggaa aaaggctc 18

<210> 12  
<211> 20  
<212> DNA  
<213> Enterococcus casseliflavus

<400> 12  
ggctgcgata ttcaaagctc 20

<210> 13  
<211> 20  
<212> DNA  
<213> Enterococcus faecium

<400> 13  
ggctgcgata ttcaaagctc 20

<210> 14  
<211> 30  
<212> DNA  
<213> Enterococcus faecium

<400> 14  
cuacuacuac uacgaattca agaacactgg 30

<210> 15  
<211> 36  
<212> DNA  
<213> Enterococcus faecium

<400> 15  
caucaucauc auccaaccct ttctgtaaa ggcacc 36

<210> 16  
<211> 38  
<212> DNA  
<213> Enterococcus faecium

<400> 16  
cuacuacuac uactcgaggc ttatcacccc tttaacgc 38

<210> 17  
<211> 32

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&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 17

caucaucauc auggagacag gagcataat ag

32

&lt;210&gt; 18

&lt;211&gt; 696

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 18

|                        |            |             |             |            |     |
|------------------------|------------|-------------|-------------|------------|-----|
| atgagcgata aaataacttat | tgtggatgat | gaacatgaaa  | ttgccgattt  | ggttgaatta | 60  |
| tacttaaaaa             | acgagaattt | tacggttttc  | aaataactata | ccgccaaaga | 120 |
| tgtatagaca             | agtctgagat | tgaccttgcc  | atattggaca  | tcatgcttcc | 180 |
| ggccttacta             | tctgtcaaaa | aataaggac   | aagcacacct  | atccgattat | 240 |
| gggaaagata             | cagaggtaga | taaaattaca  | gggttaacaa  | tcggcgcgga | 300 |
| acgaagccct             | ttcgcccact | ggaguttaatt | gctcggtta   | aggcccagtt | 360 |
| aaaaaattca             | gtggagtaaa | ggagcagaac  | aaaaatgta   | tcgtccactc | 420 |
| attaatgtta             | acacccatga | gtgttatctg  | aacgagaagc  | agttatccct | 480 |
| gagtttcaa              | tactgcgaat | cctctgtgaa  | aacaagggga  | atgtggtag  | 540 |
| ctatttcatg             | agatatgggg | cgacgaatat  | ttcagcaaga  | gcaacaacac | 600 |
| catatccggc             | atttgcgcga | aaaaatgaac  | gacaccattt  | ataatccgaa | 660 |
| acggtatggg             | gggttggta  | taaaattgaa  | aaataaa     |            | 696 |

&lt;210&gt; 19

&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 19

|                        |             |            |             |            |      |
|------------------------|-------------|------------|-------------|------------|------|
| ttggttataa aattgaaaaaa | taaaaaaaac  | gactattcca | aactagaacg  | aaaactttac | 60   |
| atgtatatcg             | ttgcaattgt  | tgtggtagca | attgtattcg  | tgttgtatat | 120  |
| atccgaggggaa           | aacttggggaa | ttggatctta | agtattttgg  | aaaacaaata | 180  |
| cacctggacg             | cgatgaaattt | atataatat  | tccatacgga  | acaatataga | 240  |
| tatgtggcga             | ttgtcattag  | tattttatt  | ctatgtcgcg  | tcatgcttcc | 300  |
| aaatactttg             | acgagataaa  | taccggcatt | gatgtactta  | ttcagaacga | 360  |
| attgagcttt             | ctgcggaaat  | ggatgttatg | gaacaaaaacg | tcaacacatt | 420  |
| ctggaaaacg             | gagagcagga  | tgcaaagctg | gccgaacaaa  | aaaaaatga  | 480  |
| tacttggcgc             | acgatattaa  | aacgcccctt | acatccat    | tcgttattt  | 540  |
| gacgaggctc             | cagacatgccc | ggtagatcaa | aaggccaaagt | atgtgcata  | 600  |
| aaagcgatcc             | gactcgaaca  | gctaatcgac | gagtttttg   | agattacacg | 660  |
| caaacgataa             | cgctaacaaa  | aacgcacata | gacctatact  | gtataaccta | 720  |
| gatgaattttt            | atcctcagct  | ttccgcacat | gaaaaacagg  | cggttattca | 780  |
| gatctgaccg             | tgtccggcga  | ccctgataaa | ctcgcgagag  | tcttaacaa  | 840  |
| aacccgctg              | catacagtga  | ggataacagc | atcattgaca  | ttaccgcggg | 900  |
| gatgtggtgt             | caatcgaaat  | caagaacact | ggaagcatcc  | ccaaagataa | 960  |
| atatttggaa             | agttctatag  | gctggacaat | gctcgttctt  | ccgatacggg | 1020 |
| cttggattgg             | cgattgcaaa  | agaaattatt | gttcagcatg  | tgccgcggaa | 1080 |
| agcaatgata             | actatacgac  | gtttagggta | gagttccag   | cgatgccaga | 1140 |
| aaaaggaggt             | cctaa       |            |             |            | 1155 |

&lt;210&gt; 20

&lt;211&gt; 969

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

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&lt;400&gt; 20

|             |            |             |             |             |             |     |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| atgaataaca  | tcggcattac | tgttatgga   | tgtgaggcagg | atgaggcaga  | tgcatccat   | 60  |
| gctcttcgc   | ctcgcttgg  | cgttatggca  | acgataatta  | acgccaacgt  | gtcggaatcc  | 120 |
| aacgccaaat  | ccgcgcctt  | caatcaatgt  | atcagtgtgg  | gacataaattc | agagatttcc  | 180 |
| gcctctattc  | ttcttgcgt  | gaagagagcc  | ggtgtgaaat  | atatttctac  | ccgaagcatc  | 240 |
| ggctgcaatc  | atatagatac | aactgctgt   | aagagaatgg  | gcatcactgt  | cgacaatgtg  | 300 |
| gcgtactcgc  | cggatagcgt | tgccgattat  | actatgatgc  | taattcttat  | ggcagtaege  | 360 |
| aacgtaaaat  | cgattgtgcg | ctctgtggaa  | aaacatgatt  | tcaggttgg   | cagcgcaccgt | 420 |
| ggcaaggtac  | tcagcgacat | gacagttgg   | gtgggtggaa  | cgggcccagat | aggcaaagcg  | 480 |
| gttatttggc  | ggctgcgagg | atttggatgt  | aaagtgttgg  | cttatacgat  | cagccgaagt  | 540 |
| atagaggtaa  | actatgtacc | gtttgatgag  | ttgctgaaa   | atagcgat    | cgttacgtt   | 600 |
| catgtgccgc  | tcaatacgg  | tacgcaactat | attatcagcc  | acgaacaaat  | acagagaatg  | 660 |
| aagcaaggag  | catttcttat | caatactggg  | cgccgtccac  | ttgttagatac | ctatgagtt   | 720 |
| gtttaaagcat | tagaaaacgg | gaaactgggc  | ggtgcccac   | tggatgtatt  | ggaaggagag  | 780 |
| gaagagttt   | tctactctga | ttgcacccaa  | aaaccaattt  | ataatcaatt  | tttacttaaa  | 840 |
| cttcaaaagaa | tgcctaacgt | gataatcaca  | ccgcatacgg  | cctattatac  | cgagcaagcg  | 900 |
| ttgcgtgata  | cogttgaaaa | aaccattaaa  | aactgtttgg  | attttgaaag  | gagacaggag  | 960 |
| catgaatag   |            |             |             |             |             | 969 |

&lt;210&gt; 21

&lt;211&gt; 1032

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 21

|              |             |            |              |             |             |      |
|--------------|-------------|------------|--------------|-------------|-------------|------|
| atgaataagaa  | taaaagttgc  | aatactgttt | ggggggttgct  | cagaggagca  | tgacgtatcg  | 60   |
| gtaaaatctg   | caatagagat  | agccgctaac | attaataaaag  | aaaaatacga  | gcccgttatac | 120  |
| atttggaaatta | cggaaatctgg | tgtatggaaa | atgtgcgaaa   | aaccttgcgc  | ggaatgggaa  | 180  |
| aacgacaatt   | gctattcgc   | tgtactctcg | ccggataaaaa  | aaatgcacgg  | attacttgc   | 240  |
| aaaaagaacc   | atgaatatga  | aatcaaccat | gttgcgttag   | cattttcgc   | tttgcgttgc  | 300  |
| aagtcaaggta  | aagatggatc  | catacaaggt | ctgtttgaat   | tgtccggat   | cccttttgc   | 360  |
| ggctgcgata   | tccaaagctc  | agcaatttgc | atggacaaat   | cggtgcacata | catcggttgc  | 420  |
| aaaaatctg    | ggatagctac  | tcccgcctt  | tgggttattt   | ataaagatga  | taggcgggt   | 480  |
| gcagctacgt   | ttacctatcc  | tgttttgtt  | aagccggcgc   | gttgcaggctc | atccttcgg   | 540  |
| gtgaaaaaaag  | tcaatagcgc  | ggacgaattt | gactacgca    | ttgaatcgcc  | aagacaat    | 600  |
| gacagcaaaa   | tcttaatttgc | gcaggctgtt | tcgggctgt    | aggtcggtt   | tgccgttatt  | 660  |
| ggaaacagtg   | ccgcgtttagt | tgttggcgag | gtggacaaa    | tcaggctgc   | gtacggaaatc | 720  |
| tttcgttattc  | atcaggaaat  | cgagccggaa | aaaggctcg    | aaaacgcagt  | tataaccgtt  | 780  |
| ccgcagacc    | tttcagcaga  | ggagcgagga | cggtacacgg   | aaacggcaaa  | aaaaatata   | 840  |
| aaagcgctcg   | gctgttagagg | tctagcccgt | gtggatatgt   | ttttacaaga  | taacggccgc  | 900  |
| attgtactga   | acgaagtcaa  | tactctgccc | gtttcacgt    | catacagtgc  | ttatccccgt  | 960  |
| atgatggccg   | ctgcaggtat  | tgcacttccc | gaactgatttgc | accgcttgat  | cgtattagcg  | 1020 |
| ttaaagggggt  | ga          |            |              |             |             | 1032 |

&lt;210&gt; 22

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 22

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| atggaaatag | gatttacttt | tttagatgaa | atagtacacg  | gtgttcgttg | ggacgctaaa | 60  |
| tatgccactt | gggataattt | caccggaaaa | ccgggttgcac | gttatgaaat | aaatcgcat  | 120 |
| gtagggacat | acgagttggc | tgaatcgctt | ttgaaggca   | aagaactggc | tgctacccaa | 180 |
| gggtacggat | tgcttctatg | ggacggttac | cgccctaagc  | gtgtgtaaa  | ctgttttat  | 240 |
| caatgggctg | cacagccgga | aaataacctg | acaaaggaaa  | gttattatcc | caatattgac | 300 |
| cgaactgaga | tgatttcaaa | aggatacgtg | gttcaaaat   | caagccatag | ccgcggcagt | 360 |
| gccatttgc  | ttacgcttta | tcgattagac | acgggtgagc  | ttgtaccaat | ggggagccga | 420 |

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|  |     |
|--|-----|
| tttggatttt a tggatgaacg ctctcatcat gcggccaaatg gaatatcatg caatgaagcg | 480 |
| caaaatcgca gacgtttgcg ctccatcatg gaaaacagtg ggtttgaagc atatagcctc    | 540 |
| gaatggtggc actatgtatt aagagacgaa ccataccca atagctattt tgatttcccc     | 600 |
| gttaaataa  | 609 |

<210> 23  
<211> 912  
<212> DNA  
<213> *Enterococcus faecium*

<400> 23  
gaagt tgttttttt attgttattg ttattcttaa tatacttagg ttatgactac 60  
cgaag cactgtttc tcaggaaaaa gtcgaattc aaaattatga tcaaaatccc 120  
acatt tagaaaatag tgggacttct gaaaataccc aagagaaaac aattacagaa 180  
gtttt atcaaggaaa tctgttatta atcaatagta aatatcctgt tcgccaagaa 240  
gaagt cagatatcgtaaattatct aaacatgacg aattaataaa tggatacggg 300  
cgata gtaatattta tatgtcaaaa gaaatagcac aaaaattttc agagatggtc 360  
cgctg taaagggtgg cgtagtcat tttatttta atagtggcta tcgagacttt 420  
cgtttt gtgtgtttt ccaagaaaat ggggctgagt atgccttacc agcaggttat 480  
cata attcagggtt atcactagat gtaggatcaa gcttgacgaa aatggAACga 540  
cgaag gaaaagtggat agaagaaaaat gcttggaaat acgggttcat tttacgttat 600  
ggaca aaacagagtt aacaggaatt caatatgaac catggcatat tcgctatgtt 660  
ccac atagtgcgtat tatgaaagaa aagaatttcg ttctcgagga atatatggat 720  
aaag aaaaaaaaaac catttctgtt agtgtaaatg gggaaaaata tgagatcttt 780  
cctgtttaactaaaaa taccaccatt catgtgccga ctaatctcg ttatgagata 840  
aaca atatagacgg tgtaattgtg acagtgttcccgatcaac acatactaatt 900  
raggt aa 912

<210> 24  
<211> 486  
<212> DNA  
<213> *Enterococcus faecium*

```
<400> 24
aaaa tattatctag aggattgcta gctttatatt tagtgacact aatctggta 60
ttca aattacaata caatattta tcagtttta attatcatca aagaagtctt 120
actc catttactgc tactggaat ttcagagaga tgatagataa tgttataatc 180
ccat ttggcttgc tttgaatgtc aattttaaag aaatcgatt tttacctaag 240
tttg tactggttt aagtcttact tttgaaataa ttcaatttat cttcgcttatt 300
acag acataaacaga tgtaattaca aatactgtg gaggtttct tggactgaaa 360
ggtt taagcaataa gcataatgaat caaaaaaaaaat tagacagagt tattatTTT 420
atac ttttgcgtt attattgctc gtttaccgta cccatttaag aataaattac 480

```

<210> 25  
<211> 19  
<212> DNA  
<213> *Enterococcus faecium*

<400> 25  
cgaataccggc aagcgtacaa 18

<210> 26  
<211> 663  
<212> DNA  
<213> *Enterococcus faecium*

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&lt;400&gt; 26

|             |             |            |             |             |             |     |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| atgtcgatac  | gaattctact  | tgtcgaggat | gatgatcata  | tctgcaatac  | agtaagggcg  | 60  |
| ttttggctg   | aagcaagata  | tgaggtggat | gcctgcacag  | atggaaacga  | agcacacacc  | 120 |
| aagttctatg  | aaaacaccta  | tcaactggtt | attcttgata  | ttatgtctgc  | cggttatgaat | 180 |
| gggcatgaac  | ttctacgtga  | atttcggcg  | caaaatgata  | ccccattct   | gatgtatgaca | 240 |
| gccctgtcgg  | atgacgaaaa  | ccaaatccgg | gcgtttagt   | cagaggcaga  | cgactatgt   | 300 |
| acaaaggccat | tcaagatgog  | gatttacta  | aagcgggtgg  | aagccctgtt  | acggcgcagc  | 360 |
| ggtgcgctgg  | caaaggaatt  | tcgtgtggc  | aggctgacac  | ttctgcccga  | ggatttttagg | 420 |
| gtacttgtg   | acggtaacgga | gctgcccctg | acacgaaaaag | aatttggaaat | cctttgctg   | 480 |
| ctggtgccaga | acaaaggcag  | aacctaacc  | catgaaatca  | tttgcggcc   | catatgggga  | 540 |
| tatgactttg  | acggtgatgg  | cagcacagtc | cacactcata  | tcaaaaatct  | gcgggcaag   | 600 |
| ctgcccggaaa | atatcatcaa  | aaccatccgc | ggtgttagtt  | accgattgga  | ggaatcatta  | 660 |
| taa         |             |            |             |             |             | 663 |

&lt;210&gt; 27

&lt;211&gt; 1344

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 27

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| atggaaaagaa | aagggatttt  | cattaagggtt | ttttcctata  | cgatcattgt | cctgttactg | 60   |
| cttgcggtg   | taacggcaac  | actgtttgca  | cagcaatttg  | tgtcttattt | cagagcgatg | 120  |
| gaagcacagc  | aaacagtaaa  | atcctatcg   | ccattgggtgg | aactgattca | gaatagcgat | 180  |
| aggcttgata  | tgcaagaggt  | ggcagggctg  | tttcactaca  | ataaccaatc | ctttgagttt | 240  |
| tatatttgaag | ataaaagaggg | aagcgtactc  | tatgccacac  | cgaatgccga | tacatcaaat | 300  |
| agtgttaggc  | ccgactttct  | ttatgtggta  | catagagatg  | ataatatttc | gattgttgct | 360  |
| caaagcaagg  | caggtgtggg  | attgcattt   | caagggctga  | caattcgggg | aattgttatg | 420  |
| attgcataa   | tggttgtatt  | cagccttta   | tgcgctata   | tcttgcgcg  | gcaaatgaca | 480  |
| acgcccgtca  | aagccttagc  | ggacagtgcg  | aataaaatgg  | caaacctgaa | agaagtaccg | 540  |
| ccgcccgtgg  | agcgaaaagg  | tgagcttggc  | gcactggctc  | acgacatgca | ttccatgtat | 600  |
| atcaggctga  | aagaaaccat  | cgcaaggctg  | gaggatgaaa  | tcgcaaggga | acatgagttg | 660  |
| gaggaaacac  | agcgatattt  | cttgcggca   | gcctctcatg  | agttaaaaac | gccccatgcg | 720  |
| gctgttaagcg | ttctgttgg   | gggaatgctt  | gaaaatatcg  | gtgactacaa | agaccatct  | 780  |
| aagtatctgc  | gccaatgtcat | aaaaatgatg  | gacaggcagg  | gcaaaaccat | ttccgaaata | 840  |
| ctggagctt   | tcagcctgaa  | cgatggaga   | atcgatccca  | tagcgaacc  | gctggacata | 900  |
| gggcgcacgg  | ttgcccagct  | gctaccggat  | ttccaaacat  | tggcagaggc | aaacaaccag | 960  |
| cggttcgtca  | cagatattcc  | agccggacaa  | attgtcctgt  | ccgatccgaa | gctgatccaa | 1020 |
| aaggcgttat  | ccaatgtcat  | attgaatgcg  | tttcagaaca  | cgccccagg  | aggtgaggta | 1080 |
| cggatatgga  | gtgagcctgg  | ggctgaaaaaa | taccgtctt   | ccgttttgaa | catgggcgtt | 1140 |
| cacatttgcgt | atactgcact  | ttcaaaagctg | ttcatccat   | tctatgcat  | tgatcaggcg | 1200 |
| cgaagcagaa  | aaagtggcg   | aagcggtttg  | gggcttgcga  | tcgtacaaaa | aacgctggat | 1260 |
| gccatgagcc  | tccaatatgc  | gctggaaaac  | acctcagatg  | gcgtttgtt  | ctggctggat | 1320 |
| ttaccggccca | catcaacact  | ataa        |             |            |            | 1344 |

&lt;210&gt; 28

&lt;211&gt; 807

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 28

|              |            |             |            |            |            |     |
|--------------|------------|-------------|------------|------------|------------|-----|
| atggaaaaaaa  | gcaactatca | ttccaatgtg  | aatcatcaca | aacggcatat | gaaacaatct | 60  |
| ggggaaaaaaac | gggctttct  | atgggcgttc  | attatctcg  | tcacagtctg | cacgctgttt | 120 |
| ttgggggttga  | gattgggttc | cgtattggag  | gcaacacagc | taccgcctat | ccctgcaact | 180 |
| catacaggca   | gccccactgg | tgtagcggag  | aatccagagg | aaaacactct | tgccacccgc | 240 |
| aaagaacagg   | gagatgaaca | ggaatggagc  | ctgattttag | tgaacaggca | gaacccatc  | 300 |
| ccgcggccat   | acgatgttga | acttgcgcag  | ctgtcaaatt | gtgagcggat | agacattcgg | 360 |
| atttctccct   | acctccagga | tttgcgttagt | gcccgaagag | ctgtatggat | ttacccgatt | 420 |

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|            |             |             |             |            |            |     |
|------------|-------------|-------------|-------------|------------|------------|-----|
| gtcgcatccg | gataccggac  | aacagaaaaaa | cagcaagaaaa | tcatggatga | aaaagtgcgc | 480 |
| gaatacaagg | cggaaaggcta | cacctctgca  | caggctaaag  | cggaagcaga | aacttgggtg | 540 |
| gccgtgccgg | gaacaagcga  | gcatcagctt  | ggtcttgcgt  | tggatatcaa | tgcgatgg   | 600 |
| attcattcaa | ccggcaacga  | gtttacaga   | tggctggatg  | aaaacagcta | tgcgtttgg  | 660 |
| tttattcgcc | gctacccgccc | agacaagaca  | gagataaccg  | gtgtgagcaa | cgagccgtgg | 720 |
| cattaccgat | atgtcgcat   | cgaagctgcc  | acaaagatat  | accaccaagg | gctttgcctt | 780 |
| gaggaatatt | taaacacaga  | aaaatga     |             |            |            | 807 |

<210> 29  
<211> 972  
<212> DNA  
<213> Enterococcus faecium

| <400> 29  | 60  |
|---|-----|
| atgagaaaaaa gtatgggcat tactgttttt ggatgcgagc aggatgaggc aaatgcttc     | 120 |
| cgcaccttat caccagattt tcataattatc cctacgctga tcagtgatgc gatatcgca     | 180 |
| gacaacgcaa aattggccgc tggcaatcaa tgcattagcg taggcataa gtccgaggtt      | 240 |
| tccgaggcga caattcttgc gctgagaaaag gtcggggtaa aatacatttc taccgcagc     | 300 |
| atcggctgca atcacattga tacgactgccc gccgagagaaa tggggatctc gttggcaca    | 360 |
| gttgcgtatt cggccggacag cggtgcggat tatgcttgc tgctgatgct gatggccata     | 420 |
| cggggtgcaa agtccaccat acacccgtg ggcgaacaaa attcagact ggattgtgtc       | 480 |
| cgggggaaag agtcgccccgata tatgactgtg ggagttattt gaaccggcca tatagggca   | 540 |
| gcggtegtca aaaggctgcg gggatttggta tgccgtgtgc tagcctatga taacagccga    | 600 |
| aaaatttggagg cagattatgt ccagcttgcgat gagcttctaa aaaacagcga tattgttacg | 660 |
| ctccatgtgc cgctttgtgc ggataccccgc catctgtatcg gccagagcga aatcgagag    | 720 |
| atgaagcaag ggcattttt aatcaacact gggcgccccg cgcttgcgat taccgggtcg      | 780 |
| ctgggtggagg cactgggaag cgaaaagctg ggcgggtgcgg cactgatgtt gttggaggc    | 840 |
| gaggatcagt ttgtttatac cgactgctcg cagaaaagtgc ttgaccatcc cttttgtcg     | 900 |
| cagctcccaa ggatgccaaa tgtgatcatc acacccata cggcgacta caccgagcgt       | 960 |
| gtgctgcgag ataccacaga aaaaacaatc aggaattgtc ttaacttgc aaggagtttgc     | 972 |
| cagcatgaat aa   |     |

<210> 30  
<211> 1029  
<212> DNA  
<213> *Enterococcus faecium*

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&lt;210&gt; 31

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 31

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| atggaaaatg | gtttttgtt  | tttagatgaa | atgttgcatt | gtgttcgttg  | ggatgccaag  | 60  |
| tacgctacat | gggataactt | cacggaaaaa | ccagtggatg | ggtatgaggt  | gaatcgcatc  | 120 |
| atcggcacaa | aggccgtggc | gcttgcctg  | cgcgaagcac | aaatccatgc  | ggcacgcctt  | 180 |
| ggctacggct | tgctttatg  | ggatggatat | cggccaaaat | ctgcggtgga  | ctgtttctg   | 240 |
| cggtggccgg | cgcagccgga | ggacaacctc | acaaaagaaa | aatattaccc  | caatattgag  | 300 |
| cgagccgagt | tgattacaaa | gggctatgtg | gcctcacaat | ccagccatag  | ccgtggaaagc | 360 |
| acaattgatc | ttacgctcta | ccacttggat | acaggggaac | ttgtttcaat  | gggaagcaac  | 420 |
| ttcgatTTTA | tggacgaacg | gtcgcaccat | acagaaaaag | ggatagggaa  | tgcagaggca  | 480 |
| caaaatcgaa | gatgcttgcg | taaaatcatg | gaaagcagcg | gatttcagtc  | ctatcgctt   | 540 |
| aatggtggc  | actataagtt | gattgatgag | ccataccccc | atacctatTTT | taattttgct  | 600 |
| gtttcataaa |            |            |            |             |             | 609 |

&lt;210&gt; 32

&lt;211&gt; 828

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 32

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| atgaacagaa  | aaagattgac  | acagcgcttc | ccgttccctgc | ttccaatgag | acaagcgcag  | 60  |
| agaaaaatat  | gtctttatgc  | gggaatgaga | tttgacggct  | gttgctatgc | acagacgata  | 120 |
| ggagaaaaaa  | cgttccctta  | tttgctcttt | gaaacggatt  | gtgcgttata | caaccacaat  | 180 |
| accggatttg  | acatgatata  | ccaagaaaac | aagggtttca  | actttaagct | ggcggcaaag  | 240 |
| accttaaacc  | gccttattgt  | aaaacggggg | gaaacctttt  | ctttctggcg | gctggtaacgc | 300 |
| catgcgaca   | aagatacccc  | ctataaagac | ggccttacgg  | tggccaatgg | taagctcacc  | 360 |
| accatgtcgg  | ggggcggtat  | gtgccagatg | agcaattttac | tattttgggt | gttcctgcat  | 420 |
| acgcattga   | caattatcca  | gcmcagcggt | cacgtagtaa  | aggagttcc  | agagccaaac  | 480 |
| agtgcacgaga | tcaaaggggg  | ggatgcaacc | atctcagagg  | gctggattga | ttaaaagtg   | 540 |
| cggaaacgata | ccgactgcac  | ctaccaaata | tgggtgaccc  | tagatgatga | gaaaatcatc  | 600 |
| ggtcaggtgt  | tcgcccacaa  | acagcctcaa | gcattataca  | aaattgcaaa | cggcagttt   | 660 |
| cagtatgtcc  | gtgaaaagtgg | cgggatttat | gaatatgcac  | agggtgaacg | gatgcaagtt  | 720 |
| gccttaggta  | ccggggaaat  | aatagattgc | aagctgctt   | atacaaacaa | atgcacaaatc | 780 |
| tgctatcccc  | tcccgaaag   | tgtggatatt | caggaggcga  | accaatga   |             | 828 |

&lt;210&gt; 33

&lt;211&gt; 1053

&lt;212&gt; DNA

&lt;213&gt; Enterococcus casseliflavus

&lt;400&gt; 33

|             |             |             |             |            |             |     |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| atggaaaaaa  | tcgcatttat  | ttttggggc   | aattcaccgg  | aatacaccgt | ttcttttagct | 60  |
| tcagcaacta  | gcccatacg   | agcactccaa  | tcatctccct  | atgactacga | cctctctttg  | 120 |
| atcgggatcg  | ccccagatgc  | tatggattgg  | tacttgtata  | caggagaact | ggaaaacatc  | 180 |
| cgacaagaca  | cgtgggttgtt | ggatacgaaa  | cataaaacaga | aaatacagcc | gctattcgaa  | 240 |
| ggaaaacggct | tttggctaaag | tgaagagcag  | caaacgttgg  | tacctgatgt | tttattttccc | 300 |
| attatgcatg  | gcaaatacgg  | ggaagatggc  | agtatccaag  | gatttttga  | attgtatgaag | 360 |
| ctgccttatg  | taggctgcgg  | ggtggcagggt | tctgccttat  | gtatgaacaa | atggctgctg  | 420 |
| catcaagctg  | cagcagccat  | tggcgatcaa  | agtgcctta   | cgattcttt  | gacaaatcaa  | 480 |
| gccaaccaggc | aagaacaaat  | cgaagcttt   | atccagaccc  | atggctccc  | agttttcttt  | 540 |
| aaggcttaatg | aagcgggctc  | ctcaaaaggg  | atcactaaag  | tcacctgcgt | tgaagaaatc  | 600 |
| gcttctgcct  | taaaagaagc  | ctttacttat  | tgttccgcag  | tgctcttaca | aaaaaatatt  | 660 |
| ggcgggtttg  | agatcggttg  | cggatTTT    | ggcaacgact  | ctttgactgt | cggtgcttgt  | 720 |

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|   |      |
|---|------|
| gacgccattt cattagtaga cggcttttc gattttgaag aaaagtacca gctgatcagc    | 780  |
| gccaaaatca ccgtccctgc gccattgcct gaaacgattg aaaccaaggt caaagaacaa   | 840  |
| gctcagctgc tctatcgtag tcttggctt aaaggtctt ctcgcacatcgat ctttttgc    | 900  |
| acggagcggag gagaactata cttgaatgaa atcaataacta tgccgggctt tacgagtcac | 960  |
| tcccgctatc ctgccatgat ggcagcggtc ggcttacct atcaagaact actacaaaaa    | 1020 |
| ctgcttgcgt tagcaaaggaa ggaagtcaaa tga                               | 1053 |

<210> 34  
 <211> 699  
 <212> DNA  
 <213> Enterococcus faecium

&lt;400&gt; 34

|  |     |
|--|-----|
| atgaatgaaa aaatcttagt ggttgatgat gaaaaagaat tggccgactt agttgaagta    | 60  |
| tatctgaaaa acgatggata taccgttat aaattttata atggcaagga tgcactaaag     | 120 |
| tgtattgaat ccgtgaaact ggatttagcc atattggata tcattgttcc ggatgttagac   | 180 |
| gggtttcaga tctgccagaa aatccggaa aagtttact tccctgttat catgctgaca      | 240 |
| gcaaaagtgg aggacgggaa taaaatcatg ggactgtccg tggccggatga ttatattaca   | 300 |
| aagccgtta acccgctgga agtgggtgcg agagtaaagg cgccagctgcg gcagttacatg   | 360 |
| cggtacaagc agcccagctt aaagcaggag gctgaatgca cagaatacga tattcagaggg   | 420 |
| atgacaatca gcaagagcag ccataagtgt atcctgtttt gaaaggagat tcagctgacg    | 480 |
| ccaacggagt ttctgattct ttggatctg tgcgagcgtc agggtacggt tgtttctacg     | 540 |
| gaggaattat ttgaggcagt atgggggtgaa cggtttttgc acagcaataa tactgtgtat   | 600 |
| gcccataatcg ggcggctccg ggagaaaaatg aaggaaaccgt caagaaatcc gaaatttata | 660 |
| aaaactgtgt ggggagtggg atataccatt gaaaaatag                           | 699 |

<210> 35  
 <211> 1146  
 <212> DNA  
 <213> Enterococcus faecium

&lt;400&gt; 35

|   |      |
|---|------|
| ttgaaaaata gaaataaaac cagtcatgaa gatgactatt tacttttaa aaacagattg    | 60   |
| tccgttaaaa tactgtttat gatggatatccattctga ttattgcggg tgtttatctg      | 120  |
| tttattctaa aagataattt tgcaaatgtc gtggtagcca ttttagacag ctttatctat   | 180  |
| catgatcggg atgaggcggt ggctgttat ctgagaacct ttaaggcgtc tgagatatgg    | 240  |
| cttttcttgc tagcggttat gggcgtgtt tttatgatct tccggcgta tctggacagt     | 300  |
| atttcaaaat attttaagga gatcaaccgg gggatcgata ctgggtgaa tgaggatgcc    | 360  |
| aacgatattg ggctgcctcc ggagttggct tcgaccgaaa gaaaatcaa ttccatacgg    | 420  |
| cataccctga cggaaacggaa aacggacgct gagcttgcag agcaaggaa aaacgatctt   | 480  |
| gtcatgtatc tggcccattgc cctgaagacc cccgttccat cggccatagg atatttgaac  | 540  |
| ctgttaaggg atgagaatca gatttccgag gaacttaggg aaaaatattt gtccatatca   | 600  |
| ttggataagg ctgagcgtct ggaagaactg attaatgagt tttttgaaat tacgaggttt   | 660  |
| aatcttcaa acatcacgct tgcgtacagc aaaatcaatc tgacgatgat gctggaaacag   | 720  |
| ctggggatgt agtttaagcc gatgctggcc gggaaaaatc taaaatgtga atttgcgtt    | 780  |
| cagccagaca tgcgtgttc ctgcgtatgcc aacaagctgc agcgggtctt cgataatgtg   | 840  |
| ctgagaaatg ccgtcagctt ctgcgtatgag aataccacca ttccgggtgaa agccaggcag | 900  |
| accgaagacc atgtactcat caaaatcata aacgaagggg atacgattcc tggggagaga   | 960  |
| ttggaaagaa tctttgagca gtttaccgc ctggatgtat ctgcgtatcc aagtaccggc    | 1020 |
| ggggccggtc tggggcttgc cattgaaaaa gagattgtgg aactgcacca tggacagatc   | 1080 |
| actgcccaca gcaaaaaatgg tatcaccagt tttgaggtt cattgcccgt cgtaggaaaa   | 1140 |
| tcgttaa   | 1146 |

<210> 36  
 <211> 1071  
 <212> DNA  
 <213> Enterococcus faecium

&lt;400&gt; 36

|                        |            |             |             |             |      |
|------------------------|------------|-------------|-------------|-------------|------|
| atgatggaat atcaaaaacaa | taatggaaac | tatgacaaaa  | ggaatcgtag  | aaaagccaaa  | 60   |
| aaaagaaaaat            | tgcttttta  | cagggctgca  | tgtgtcacac  | tttgtttgct  | 120  |
| gtaatcttg              | gagttgtgca | tttttaggg   | gagagtaaaag | atcccgccct  | 180  |
| gaaaacacaa             | aaacagacaa | gaactattcg  | tggcttaccg  | acgatcagaa  | 240  |
| ccctcagttc             | cagagccagc | catatccgac  | caggctaca   | aaatttccgt  | 300  |
| gccccaaacg             | ccattgtaat | gaataaagac  | acaatagg    | tattgtacca  | 360  |
| acagccaaaa             | ttgcgcggc  | cagcactgct  | aagatgatta  | tggcttgc    | 420  |
| tattgttccc             | cggaggatga | aatgaaaagta | ggtgcggaga  | ttgaaatgat  | 480  |
| tcgtcaaccg             | catggcttat | gaagggtgat  | acactgactg  | tcagacagct  | 540  |
| cttatgttc              | cgtccggcaa | tgatgcagcc  | tatacccttgc | cagtcaatac  | 600  |
| attgcagggt             | ataaacagcc | gaccagtca   | caagcgattt  | aatgtattcat | 660  |
| aatgaaaaag             | ccgtggccct | tggcgccaca  | aactcgaaat  | ttgtagctcc  | 720  |
| gatgcccgaag            | ggcagtatac | taagcttat   | gaccttgc    | tcattgc     | 780  |
| gacaatccta             | tcatttcgga | gattgtacg   | agttattcat  | cctatgaaaa  | 840  |
| ggaagagagg             | tcacttacaa | caattccat   | gagcttctcg  | atccgaacag  | 900  |
| cgtccggagg             | ttatcggtt  | gaaaacagga  | accagcagtc  | ttggcggcgc  | 960  |
| tctgcagcgg             | tgatggacgg | agaaaacctat | atctgtgtag  | ttatgggttc  | 1020 |
| agcaggtttc             | aggacagcgt | tgatatttta  | gataaaatca  | aagcccagta  | 1071 |

&lt;210&gt; 37

&lt;211&gt; 969

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 37

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| atggagaaaa  | taatagacat  | aactgtttt  | ggctgcgagc  | cagacgaaat | ggagggtttt  | 60  |
| caaaagattt  | cttatgagct  | ttgtgttaca | gccacactca  | taaaagattc | tatatcgaa   | 120 |
| agcaatctg   | gattagctaa  | tggatgcgg  | tgtgtaaagcg | taagccataa | agcggagcta  | 180 |
| tcagaaccca  | ttttcttgc   | gctaaaaat  | gcaggggtaa  | aatatatcg  | tacccggagc  | 240 |
| attggttta   | accatattga  | tatacaggcg | gctgggttac  | tgggtatgg  | tgttggcaca  | 300 |
| gtagaatact  | cggccggaaag | tgtggccgat | tataccgtca  | tgctgtatgc | tatgtgtatg  | 360 |
| cgtggcacaa  | agtgcattct  | gcgtgaaacc | cagaggcaga  | attattgc   | gaatgacctg  | 420 |
| cgcggaaaaag | aactgcggg   | tatgaccgtg | ggtgtgttag  | gaactggcg  | aatcgacag   | 480 |
| gcagtcatgg  | agcgcctgga  | gggatcgg   | tgtaaggat   | tggctatga  | ccgaaatcaa  | 540 |
| aaagcaggag  | cagactatgt  | ttcggttcat | gaactgtctg  | aaaaaagtga | cattgttaca  | 600 |
| ctgcataatcc | cgttggcgga  | ggataccgc  | catatgattt  | gctatgaaga | gctggaaatg  | 660 |
| atgaaggaag  | aggcgcttct  | gatcaataca | ggcgcccccg  | ctttagtgg  | tacccgcagca | 720 |
| ttggtagaag  | cattaaaagg  | acagaaaatc | ggcgccgccc  | tggatgttt  | ggaaggcgaa  | 780 |
| gaaggatatct | tttaccatga  | ctgcacccaa | agaagaatag  | aacatccctt | cctgtcggtc  | 840 |
| ctgcaggggaa | tgccgaatgt  | cattgttacg | ccgcacacag  | cctatcatac | ggaacgggtg  | 900 |
| ttgggtgaca  | cggtcagaaa  | tactattaga | aattgtttga  | atttgaaag  | gagtctggaa  | 960 |
| aatgttttag  |             |            |             |            |             | 969 |

&lt;210&gt; 38

&lt;211&gt; 1032

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 38

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| atgttttagaa | ttaaagttgc | agttctgttt | gggggctgtt  | cagaggaaca | taatgtttcg | 60  |
| ataaaatctg  | cgatggagat | tgcccaaac  | atagatacaa  | aaaaatatca | gccttattat | 120 |
| attggaatca  | caaaatccgg | cgttggaaa  | atgtgtgaaa  | aaccttgttt | ggagtgggaa | 180 |
| caatatgcgg  | gggatccgg  | tgtttttcg  | ccggacagaaa | gtacgcatgg | tctgtgtata | 240 |
| aaaaaagaca  | aagggtatga | aatccagcc  | gtggatgtgg  | tgttccgat  | gattcatggc | 300 |
| aagtttgggg  | aggatggctc | catacaaggc | ttgcttgaat  | tgtcaggcat | tccgtatgt  | 360 |

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|  |      |
|--|------|
| ggatgcgata ttcaaagctc cgtgatctgc atggataagg cgcttgcata taccgttg    | 420  |
| aaaaatgcgg gtatcaactgt gcctgggttc cggatccttc aggaggggaa tcgcctggaa | 480  |
| acggaggatt tcgtatatacc cgttttgtta aagcctgccc gttccggctc atcctttggc | 540  |
| gtaaacaagg tatgcaaggc agaagaactg caggcagcaa tcgaagaagc aagaaaatat  | 600  |
| gacagcaaga ttttGattga agaggccgtt accgggagtg aggtaggctg cgcctactg   | 660  |
| ggaaacggaa atgatctcat ggctggcgag gtggatcaga ttgagctgag acacggctt   | 720  |
| tttaagattc atcaggaagc acagccggag aaggatctg aaaatgcagt catccgagtt   | 780  |
| ccagccgcct taccggatga ggtaagagaa cagattcagg aaacggcaat gaagatttac  | 840  |
| cggatacttg gtcgcaggattggccgc attgacctgt tttgcggga ggacggttgc       | 900  |
| attgtgctga atgaagtgaa taccatgcca gttttactt cctacagccg ctatccccgc   | 960  |
| atgatgacag cagccggttt tacgcttct gaaatactgg atcgcttgat tgaactttca   | 1020 |
| cttaggaggt aa  | 1032 |

&lt;210&gt; 39

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 39

|  |     |
|--|-----|
| atgaaaaaga actttgcctt ttagatgaa atgattcccg ggatccgatg ggatgc       | 60  |
| tatgcacactt gggacaattt caccggaaa ccggtagacg gatacatggt aaaccgtgtt  | 120 |
| atggaaacga aggagctgg agttgttttgcgtaaggctc agaagatggc ggagaagcta    | 180 |
| ggatatggtt tgctttatgcgacggctat cgccccactg ggcgtgtaa ttgtttctg      | 240 |
| aattggcattt ccaaccgaa agacaatctg acgaaaaaagc gttactatcc aaatatcaaa | 300 |
| aggaatgaga tggttgcgaa ggggtatgtgcgcctcacaat ccagccacag ccgtggaaagt | 360 |
| acgggtgacc ttacaatttt tcatttgcgat agcggatgc ttgttcctat ggggtggagat | 420 |
| tttgacttta tggatgaacg gtcacaccat gcccgaagcg gtctgagcga agaagaatca  | 480 |
| aaaaaccggc agtgcttgcg ttatcatg gagatgcg gatttgcgatcgttat           | 540 |
| gaatggtggc attacgtctt ggcggacgag ccatacccg atacatattt tgattttgc    | 600 |
| attgcctag  | 609 |